

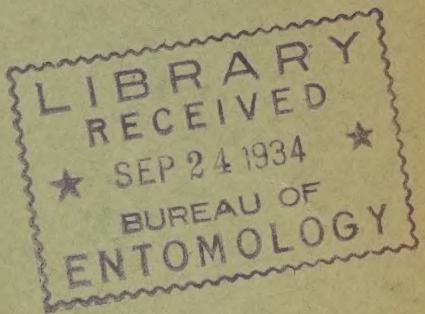
## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



UNITED STATES DEPARTMENT OF AGRICULTURE  
BUREAU OF CHEMISTRY AND SOILS  
INSECTICIDE DIVISION

Patent List No. 13



A LIST OF  
UNITED STATES PATENTS

Issued from 1917 to 1933 inclusive

relating to

FLY EXITS FOR SCREENS

Compiled by

R. C. Roark

Washington, D.C.  
August 1934



A LIST OF UNITED STATES PATENTS ISSUED FROM 1917 TO 1933,  
INCLUSIVE, RELATING TO FLY EXITS FOR SCREENS.

Compiled by

R. C. Roark

Insecticide Division, Bureau of Chemistry and Soils

These 52 devices are designed to permit the escape of a fly that is on the inside of a window or door screen but prevent the entry of a fly that is on the outside.

Every effort has been made by the compiler to make this list of patents complete and no discrimination is intended against any patent mention of which is inadvertently omitted.

The Department of Agriculture assumes no responsibility for the merits or workableness of any of the patents, nor does it recommend any of the inventions listed.

-----

1,229,983 (June 12, 1917; appl. May 3, 1916). WINDOW OR DOOR SCREEN. William R. Leonard, Covington, Ky. - One-half to John Hachmeister, Covington, Ky.

1,236,936 (Aug. 14, 1917; appl. Aug. 2, 1916). SCREEN HAVING FLY-EXIT MEANS. Elmer K. Holland, Galt, Mo.

1,237,284 (Aug. 21, 1917; appl. July 13, 1916). FLY-SCREEN. William H. Betts and Frank Rought, St. Louis, Mo. - This improved door and window screen will easily permit the flies to escape from a room, and yet make it very difficult for flies and bugs to enter the room, day or night.

1,240,627 (Sept. 18, 1917; appl. May 11, 1917). FLY-SCREEN. Emmett G. Thompson, Brighton, Colo. - This fly screen permits flies which alight on the inside thereof to escape to the outside and prevents any possibility of their returning by the same way.

1,260,261 (Mar. 19, 1918; appl. Dec. 16, 1916). FLY-ESCAPE FOR SCREENS. Frank Hembes, Chicago, Ill.

1,260,975 (Mar. 26, 1918; appl. June 12, 1917). SCREEN ATTACHMENT. Frank Fulton, Collinsville, Ill. - One-half to Edmund C. Bardsley, Collinsville, Ill.

1,262,116 (Apr. 9, 1918; appl. Feb. 23, 1917). WINDOW-SCREEN. Frank E. Smith, Topeka, Kans.

1,264,117 (Apr. 23, 1918; appl. July 13, 1917). FLY-ESCAPE. Viola D. Muzzy, Spartansburg, Pa.

1,268,653 (June 4, 1918; appl. July 12, 1917). WINDOW OR DOOR SCREEN. Alfred Whetstone, Mount Carmel, Pa.

1,274,933 (Aug. 6, 1918; appl. Dec. 24, 1917). DOOR-SCREEN. Bert Perkins, Monticello, Minn.

1,277,807 (Sept. 3, 1918; appl. Mar. 15, 1918). WINDOW-SCREEN. Abe W. Wise, Corinth, Miss.

1,286,888 (Dec. 3, 1918; appl. Mar. 26, 1918). SCREEN. John O'Brien, Stayner, Ontario, Canada.

1,291,267 (Jan. 14, 1919; appl. July 13, 1918). FLY-SCREEN. Charles C. Tredway, Lordsburg, N. M.

1,305,147 (May 27, 1919; appl. Mar. 13, 1919). FLY-ESCAPE SCREEN. George W. Mittelstaedt, Morton Grove, Ill.

1,314,774 (Sept. 2, 1919; appl. Sept. 23, 1918). FLY-EXIT FOR SCREEN DOORS AND WINDOWS. Robert B. Watson and Jesse C. Kitterman, Corydon, Ind.

1,328,577 (Jan. 20, 1920; appl. Nov. 19, 1919). WINDOW-SCREEN. Jefferson F. McGeorge, Marshall, Tex.

1,332,131 (Feb. 24, 1920; appl. July 15, 1919). SCREEN. Elizabeth Lynch, Minneapolis, Minn.-This device is an improvement upon the one described in United States Patent 1,109,437, issued September 1, 1914, to Elizabeth Lynch.

1,334,148 (Mar. 16, 1920; appl. Apr. 7, 1919). FLY-EXIT FOR WINDOW OR DOOR SCREENS. John O. Fjarli, Berwick, N. D.

1,343,069 (June 8, 1920; appl. Dec. 2, 1919). FLY-EXIT FOR SCREEN DOORS AND WINDOWS. Robert B. Watson and Jesse C. Kitterman, Corydon, Ind. - This device is an improvement over the one described in United States Patent 1,314,774, issued September 2, 1919, to the patentees.

1,345,569 (July 6, 1920; appl. July 1, 1919). SCREEN. Clifford M. Way, Des Moines, Iowa.

1,354,132 (Sept. 28, 1920; appl. April 24, 1920). INSECT-ESCAPE FOR SCREENS. John P. Reily, St. Louis, Mo.

1,362,846 (Dec. 21, 1920; appl. Apr. 1, 1920). FLY-ESCAPE. Charles L. Cassady, Marion, Ky.

1,378,601 (May 17, 1921; appl. June 4, 1920). FLY-ESCAPE SCREEN. George W. Mittelstaedt, Morton Grove, Ill.- Fly escape Screen Co., Chicago, Ill.

1,392,706 (Oct. 4, 1921; appl. June 11, 1921). WINDOW-SCREEN.  
Charles Rochon, Fall River, Mass. - This device is an improvement over  
the one described in United States Patent 1, 168,558, issued on Jan. 18,  
1916, to the patentee.

1,435,982 (Nov. 21, 1922; appl. May 20, 1921). FLY SCREEN.  
Frank S. Russell, Chicago, Ill.

1,441,104 (Jan. 2, 1923; appl. Sept. 13, 1921). FLY-EXIT  
SCREEN. Jeremiah Marsden, White Salmon, Wash. - The invention relates  
to a window or door screen attachment, and more particularly to the  
class of fly exit devices for window or door screens.

1,445,155 (Feb. 13, 1923; appl. Mar. 29, 1919). FLY SCREEN.  
George W. Mosher, New Port Ky.

1,450,374 (Apr. 3, 1923; appl. Feb. 28, 1921). FLY-  
ELIMINATING SCREEN. James E. Jones, Richmond, Ind.

1,505,156 (Aug. 19, 1924; appl. Mar. 17, 1922). SCREEN.  
Wiley M. Mangum, Purdy, Va.

1,519,358 (Dec. 16, 1924; appl. July 5, 1923). SCREEN DOOR  
OR WINDOW. Jesse L. Carrigan, Birmingham, Ala.

1,537,906 (May 12, 1925; appl. Aug. 23, 1924). FLY REJECTOR  
FOR WINDOWS. Charles Webb, Fort Myer, Va.

1,557,909 (Oct. 20, 1925; appl. Apr. 7, 1924). FLY SCREEN.  
Edward I. Wallace, Florence, Ala.

1,558,102 (Oct. 20, 1925; appl. July 3, 1924). FLY-EXIT  
DEVICE. Elizabeth Lynch, Minneapolis, Minn.

1,558,617 (Oct. 27, 1925; appl. Mar. 6, 1924). SCREEN DOOR.  
Carl J. Jackson, Superior, Wis.

1,579,113 (Mar. 30, 1926; appl. Dec. 3, 1924). SCREEN.  
Carl J. Jackson, Superior, Wisconsin.

1,588,070 (June 8, 1926; appl. Dec. 9, 1925). FLY SCREEN.  
Frank E. Washburn, Hale, Mo.

1,595,554 (Aug. 10, 1926; appl. May 13, 1925). WINDOW SCREEN.  
Joseph B. Kaufmann, Mound Ridge, Kan.

1,611,250 (Dec. 21, 1926; appl. Sept. 1, 1925). FLY SCREEN.  
Squire J. Smith, Niagara Falls, N. Y.

1,615,739 (Jan. 25, 1927; appl. Jan. 19, 1925). DOOR OR  
WINDOW SCREEN. John R. Brewer, Taylor, Tex.

1,645,775 (Oct. 18, 1927; appl. Oct. 22, 1923). FLY SCREEN  
Philip S. Ross, Montreal, Quebec, Canada.

1,699,402 (Jan. 15, 1929; appl. Jan. 16, 1928). FLY-EXIT  
SCREEN. Jeremiah Marsden, Bellevue, Idaho. - This device is an improve-  
ment over the one described in United States Patent 1,441,104, issued

January 2, 1923, to the patentee.

1,701,498 (Feb. 12, 1929; appl. Dec. 1, 1927). FLY ESCAPE.  
Charles W. Hickman, Denver, Colo.

1,715,024 (May 28, 1929; appl. Oct. 28, 1927). SCREEN.  
Randolph Arbuckle, LaGrange, Ill.

1,744,329 (Jan. 21, 1930; appl. Dec. 29, 1926). SCREEN AND  
FABRIC THEREFOR. John Mraz and Julius Stedel, Bashaw, Alberta, Canada.

1,747,254 (Feb. 18, 1930; appl. Sept. 6, 1928). SCREEN INSECT  
CONTROL. Alvin A. Lundy, Indianapolis, Ind.

1,748,181 (Feb. 25, 1930; appl. Apr. 26, 1929). FLY-EXIT  
DEVICE. Hugh G. Lewis, Mont Alto, Pa.

1,755,542 (Apr. 22, 1930; appl. June 26, 1928). FLY EXIT.  
Fred L. Hickel, Ray, N. D.

1,757,868 (May 6, 1930; appl. Oct. 8, 1929). FLY EXIT.  
Hugh G. Lewis, Mont Alto, Pa.

1,767,154 (June 24, 1930; appl. Oct. 7, 1929). SCREEN EXIT.  
Charles Rochon, Fall River, Mass.

1,799,104 (Mar. 31, 1931; appl. Jan. 21, 1930). WINDOW  
SCREEN. Lewis F. Koch, Johnson City, Tenn.

1,833,104 (Nov. 24, 1931; appl. Aug. 30, 1930). WINDOW SCREEN.  
Randolph Arbuckle, Geneseo, Ill. - One-half to Blanche M. Gilbraith,  
Geneseo, Ill. - This device is an improvement over the one described  
in United States Patent, 1,715,024, issued May 28, 1929, to the patentee.

1,904,035 (Apr. 18, 1933; appl. June 11, 1932). FLY SCREEN.  
Mary E. Webster, Duncan, Okla.

ASSIGNEE INDEX  
(Numbers refer to patents cited)

Bardsley, Edmund C., 1,260,975  
Fly Escape Screen Co., 1,378,601  
Gilbraith, Blanche M., 1,833,104  
Hachmeister, John, 1,229,983

PATENTEE INDEX

Arbuckle, Randolph, 1,715,024; 1,833,104  
Betts, William H. and Rought, Frank, 1,237,284  
Brewer, John R., 1,615,739  
Carrigan, Jesse L., 1,519,358  
Cassady, Charles L., 1,362,846  
Fjarli, John O., 1,334,148  
Fulton, Frank, 1,260,975

Hembes, Frank, 1,260,261  
Hickel, Fred L., 1,755,542  
Hickman, Charles W., 1,701,498  
Holland, Elmer K., 1,236,936  
Jackson, Carl J., 1,558,617; 1,579,113  
Jones, James E., 1,450,374  
Kaufmann, Joseph B., 1,595,554  
Kitterman, Jesse C., (See Watson, Robert B.)  
Koch, Lewis F., 1,799,104  
Leonard, William R., 1,229,983  
Lewis, Hugh G., 1,748,181; 1,757,868  
Lundy, Alvin A., 1,747,254  
Lynch, Elizabeth, 1,332,131; 1,558,102  
Mangum, Wiley M., 1,505,156  
Marsden, Jeremiah, 1,441,104; 1,699,402  
McGeorge, Jefferson F., 1,328,577  
Mittelstaedt, George W., 1,304,147; 1,378,601  
Mosher, George W., 1,445,155  
Mraz, John and Stedel, Julius, 1,744,329  
Muzzy, Viola D., 1,264,117  
O'Brien, John, 1,286,888  
Perkins, Bert P., 1,274,933  
Reily, John P., 1,354,132  
Rochon, Charles, 1,392,706; 1,767,154  
Ross, Philip S., 1,645,775  
Rought, Frank, (See Betts, William H.)  
Russell, Frank, S., 1,435,982  
Smith, Frank E., 1,262,116  
Smith, Squire J., 1,611,250  
Stedel, Julius, (See Mraz, John)  
Thompson, Emmett G., 1,240,627  
Tredway, Charles C., 1,291,267  
Wallace, Edward I., 1,557,909  
Washburn, Frank E., 1,588,070  
Watson, Robert B. and Kitterman, Jesse C., 1,314,774; 1,343,069  
Way, Clifford M., 1,345,569  
Webb, Charles, 1,537,906  
Webster, Mary E., 1,904,035  
Whetstone, Alfred, 1,268,653  
Wise, Abe W., 1,277,807

